

ABSTRACT OF THE DISCLOSURE

An optical fiber array has optical fibers and an outgoing end surface. Each optical fiber has a central axis of the optical fiber. A lens array has microlenses. The lens array includes an incoming end surface, which faces the outgoing end surface of the optical fiber array, and an outgoing end surface, which sends out light transmitted through each microlens. Each microlens has an optical axis.

The outgoing end surface of the optical fiber array is inclined with respect to the central axis of each optical fiber. The incoming end surface of the lens array is inclined with respect to the optical axis of each microlens. The relative position of the optical fiber array and the lens array is adjusted such that the inclination angle of the outgoing light sent out from the outgoing end surface of the lens array with respect to the optical axis of each microlens becomes an optimal angle.